

# SARANGA NAYANAJITH

B.Sc(Hon's) Electrical & Information Engineering - Final Year Undergraduate  
(Specialized in Software)

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📦 <https://sarangak.vercel.app/>

## PROFILE

A Software Engineering Undergraduate of Department of Electrical and Information Engineering ,Faculty of Engineering , University of Ruhuna. A person who loves coding, a self- learner and a freelancer who eagerly seeks chances to improve personal skills while willing to actively contribute to the advancement of the organization.Also a freelancing video editor at Fiverr and Founder & CEO of ImmersiveX tech solutions which is a freelancing Startup based on Web development Services, Graphic design and Video editing.

## STRENGTHS AND EXPERTISE

Java, Spring, PHP, .NET , NodeJS, MVC  
Angular, React, CSS, Tailwind, C#  
C, C++, Python, React-Native , Flutter  
MongoDB, MySQL, PostgreSQL, Firebase

Web Design (Figma)  
Machine Learning  
Cloud Computing  
Image Processing

Problem Solving  
Self - learning  
Team Work & Collaboration  
Communication Skills

## EXPERIENCE

### Full Stack Developer

2024 Mar - 2024 Jul

**Byte Marketing Services, Toronto, Ontario, Canada**

Outline - Gained hands-on experience in Web and mobile application development using tech stack - PHP, Laravel, C panel, MySQL and Flutter

### Trainee Software Engineer

2023 Oct - 2024 Jan

**CodeGen International (Pvt) Ltd, Trace Expert City, Maradana, Sri Lanka**

Outline - Gained hands-on experience in AI powered web services application design and development as well as team work and collaboration.

## EDUCATION

### B.Sc.(Hons) Electrical & Information Engineering (Spec. in Software Engineering)

2020 - Present

**Faculty of Engineering, University of Ruhuna, Sri Lanka**

Modules - Data Structures & Algorithms, Programming I, Programming II, Database Systems, Probability and Statistics, GUI Programming, Computer Networks, Computer Architecture, Web Application development, Embedded systems, Control Systems, Operating Systems Programming, Mathematical Modelling, Software Project, Numerical Methods, Financial Management, Machine Learning, Object Oriented Design Patterns, Computer Vision and Image Processing, Software Architecture.

### Certificate Course in Web Development

2017 Nov- 2018 Mar

**Uva Wellassa University , Sri Lanka**

Tech Stacks Learned - Web Design, HTML, CSS, Javascript, JQuery

## PROJECTS

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### Augmented Reality App to Digitally Explore Ancient Heritage Sites in Sri Lanka - Ongoing

The project aims to change how people visit Sri Lankan ancient sites by enabling customized, immersive travel experiences that span time and location. Conventional interpretations of historical areas are significantly changed by the AR application. Utilizing cutting-edge tools like Unity, Blender, and Google AR Core, the project aims to digitally reconstruct these heritage sites to their original structures, overlaying them onto existing ruins.

[Unity 3D](#) | [Google AR Core](#) | [Figma](#) | [Niantic Lightship](#) | [Blender](#)

### OBE based Student Management System

This project aims to develop a outcome-based education (OBE) Student Management System using MongoDB, Express, React, NodeJS which will replace current Student Management System of the faculty by adding functions like Automatic attendance counting, Bulk students registration... etc.

[NodeJS](#) | [Express](#) | [MongoDB](#) | [React](#) | [TailwindCSS](#)

### Wound Care Doctor Appointment System

This system is a comprehensive appointment and inventory management application for medical practices, enabling doctors, assistants, and patients to manage appointments, treatments, inventories, and payments efficiently with real-time notifications and reporting features.

[PHP](#) | [CodeIgniter](#) | [CSS](#) | [MySQL](#)

### Synex Outlet Store Point of Sales(POS) System

This system is a web-based inventory management application utilizing client-server architecture with asynchronous operations and concurrency to manage and display inventory data efficiently.

[Java](#) | [JavaFx](#) | [Apache Tomcat](#) | [MySQL](#)

### Automatic Solar Tracking System

This system is implemented for Embedded Systems module continuous assessment project

[C++](#) | [Proteus](#) | [Atmel Studio](#) | [Atmega2560](#)

### Two way person counter with Automatic Light and Fan Controller with Real-time Counter Display Dashboard

This system is implemented for Sensors and Transducers module continuous assessment project

[Arduino](#) | [IOT](#)

## PARTICIPATION & ACHIEVEMENTS

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### IEEE HaXtreme 2022 - 4th place

Organized by IEEE Computer Society , University of Ruhuna

### Road to Codemania '21 - 2nd Place

Algorithmic coding challenge organized by the IEEE Computer branch of Srilanka Technological campus

## REFEREES

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### Dr. Thilina Weerasinghe

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